

IN THE CLAIMS

Please add new claims 13-18 as shown below. This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (original). A system for monitoring pressure of tires mounted on a vehicle by comparing a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising:

a first temperature sensor, installed at at least one of the tires, that detects internal temperature of the tire;

a second temperature sensor, installed at the vehicle, that detects ambient temperature at a place where the vehicle locates; and

value correcting means for correcting the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.

Claim 2 (original). A system according to claim 1, wherein the value correcting means corrects the predetermined value such that the predetermined value is increased with increasing difference between the detected temperatures.

Claim 3 (original). A system according to claim 2, wherein the value correcting means corrects the predetermined value such that the predetermined value is increased as the detected tire internal temperature rises above the detected ambient temperature.

Claim 4 (original). A system according to claim 1, wherein the predetermined value is set based on a recommended cold pressure.

Claim 5 (original). A system according to claim 1, wherein the value correcting means corrects the predetermined value based on the difference between the detected temperatures when it is determined to be in a state that the tire pressure is to be adjusted stably.

Claim 6 (original). A method of monitoring pressure of tires mounted on a vehicle by comparing a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising the steps of:

detecting internal temperature of the tire;
detecting ambient temperature at a place where the vehicle locates; and
correcting the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.

Claim 7 (original). A method according to claim 6, wherein the step of value correction corrects the predetermined value such that the predetermined value is increased with increasing difference between the detected temperatures.

Claim 8 (original). A method according to claim 7, wherein the step of value correction corrects the predetermined value such that the predetermined value is increased as the detected tire internal temperature rises above the detected ambient temperature.

Claim 9 (original). A method according to claim 6, wherein the predetermined value is set based on a recommended cold pressure.

Claim 10 (original). A method according to claim 6, wherein the step of value correction corrects the predetermined value based on the difference between the detected temperatures when it is determined that the vehicle is in a state that the tire pressure is to be adjusted stably.

Claim 11 (original). A computer program embodied on a computer-readable medium for monitoring pressure of tires mounted on a vehicle by comparing a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising the steps of:

- detecting internal temperature of the tire;
- detecting ambient temperature at a place where the vehicle locates; and
- correcting the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.

Claim 12 (original). A system for monitoring pressure of tires mounted on a vehicle having a microcomputer or microprocessor that compares a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising:

- a first temperature sensor, installed at at least one of the tires, that detects internal temperature of the tire; and

a second temperature sensor, installed at the vehicle, that detects ambient temperature at a place where the vehicle locates;

the microcomputer is programmed to correct the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.

Claim 13 (new). A system according to claim 5, wherein the system is determined to be in a state in which the tire pressure can be adjusted stably by monitoring sensor output from at least a tire pressure adjustment switch.

Claim 14 (new) A system according to claim 13, wherein when the system is determined to be in a state that the tire pressure is to be adjusted stably, the value correcting means corrects the predetermined value based on the difference between the detected temperatures.

Claim 15 (new). A system according to claim 5, wherein the system is determined to be in a state that the tire pressure can be adjusted stably by monitoring sensor output from a vehicle speed sensor, a crankshaft sensor, a shift position sensor, and a tire pressure adjustment switch, and wherein when the system is determined to be in a state that the tire pressure is to be adjusted stably, the value correcting means corrects the predetermined value based on the difference between the detected temperatures.

Claim 16 (new). A system according to claim 10, wherein the system is determined to be in a state in which the tire pressure can be adjusted stably by monitoring sensor output from at least a tire pressure adjustment switch.

Claim 17 (new) A system according to claim 16, wherein when the system is determined to be in a state that the tire pressure is to be adjusted stably, the value correcting means corrects the predetermined value based on the difference between the detected temperatures.

Claim 18 (new). A method according to claim 10, wherein it is determined that the system is in a state that the tire pressure can be adjusted stably by monitoring sensor output from a vehicle speed sensor, a crankshaft sensor, a shift position sensor, and a tire pressure adjustment switch, and wherein when the system is determined to be in a state that the tire pressure is to be adjusted stably, the value correcting means corrects the predetermined value based on the difference between the detected temperatures.